Practice Question Set For GCSE

Subject: Physics



Paper-1 Topic: GCSE Triple Science_Electricity (Low Demand Questions)

Name of the Student:			_ Time : 19 Minute:
			Time . 19 Minutes
Q1.			
(a)	(i)	A	1
	(ii)	bar drawn with correct height ignore width of bar	1
(b)	(i)	$E = P \times t$	
		2.4 allow 1 mark for correct substitution ie 1.2 × 2 provided no subsequent step shown	2
	(ii)	36 or their (b)(i) × 15 correctly calculated	
		or	
		their (b)(i) × 0.15 correctly calculated with an answer given in £ allow 1 mark for correct substitution ie 2.4 × 15 or	
		their (b)(i) × 15 allow 1 mark for correct substitution provided no subsequent step shown an answer £0.36 gains both marks	
			2 [6
Q2.	<i>(</i> 2)	4-	
(a)	(i)	15	1
	(ii)	4.5 or their (a)(i) x 0.3 correctly calculated allow 1 mark for correct substitution, ie 0.3 x 15/their (a)(i), provided	no
		subsequent step	2
	(ii)	decrease	1

accept any correct indication reason only scores if Y is chosen accept voltage for p.d. 1 (only one that) shows a direct current / p.d. a battery / cell gives a direct current accept both **X** and **Z** are a.c. or a battery/cell gives a constant current/p.d. accept it's a constant current/p.d. it is not changing is insufficient 1 [6] Q3. (a) (i) correct symbol ringed 1 (ii) accept any suggestion that would change light intensity, eg: torch on or off accept power of torch do not accept watts / wattage of torch distance between torch and LDR lights in room on or off shadow over the LDR 1 (b) resistance decreases 1 from 600 k Ω to 200 k Ω accept by 400 k Ω 1 (c) (i) no numbers for light intensity light intensity is categoric / a description / not continuous not enough results is insufficient (ii) YES mark is for the reason

(b)

both show that resistance increases with decreasing (light) intensity / brightness

accept they both get the same results / pattern

(d) A circuit that automatically switches outside lights on when it gets dark.

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